

# Flat fluorescent lamp and backlight unit using the same

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Abstract not available for CN1621920

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Disclosed is a flat fluorescent lamp, including a back substrate, a front substrate made of a transparent material and mounted on the back substrate through a sealing member disposed therebetween, a plurality of partitions disposed between the back and front substrates to define a discharge channel therebetween, a fluorescent material layer coated along a surface of the discharge channel defined by the partitions, a plurality of electrodes disposed to both the back substrate and the front substrate to cause a dielectric barrier discharge, and a reflective layer to cover the entire back substrate and upper portions of the electrodes disposed to the back substrate. In addition, a backlight unit is provided, including the above flat fluorescent lamp, a light diffusion part spaced from a top of the front substrate of the flat fluorescent lamp to diffuse light irradiated from the flat fluorescent lamp, an insulating layer disposed under the reflective layer of the flat fluorescent lamp through a first adhesive layer, and a base member disposed under the insulating layer through a second adhesive layer. Such a backlight unit is advantageous in improvement of uniform characteristics of luminance and supplement of durability of the lamp upon combination of the lamp and the base member.

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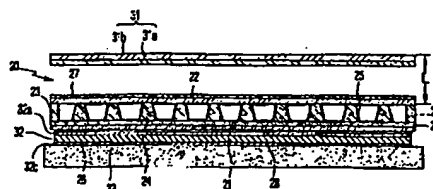
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[54] 发明名称 平面荧光灯和使用平面荧光灯的后照明装置

[57] 摘要

本发明揭示了平面荧光灯，它包括后衬底、由透光材料组成且通过设置其之间的密封元件安装在后衬底上的前衬底、设置在后衬底和前衬底之间构成其之间放电通道的多个隔板、沿着由隔板构成的放电通道的表面涂覆的荧光材料层、设置在后衬底和前衬底两处的多个电极，以及覆盖整个后衬底和设置在后衬底处电极的上面部分的反射层。此外，还提供了后照明装置，它包括上述平面荧光灯、与平面荧光灯的前衬底的顶部相距一定距离用来扩散来自平面荧光灯辐照的光的光扩散部件、通过第一粘结层设置在平面荧光灯的反射层下面的绝缘层，以及通过第二粘结层设置在绝缘层下面的基座元件。这种后照明装置的优点是，因灯和基座元件的组合来改进亮度的均匀特性和增加灯的寿命。



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